

Appl. No. 10/777,521  
Amdt. dated October 12, 2004

**Amendments to the Claims:**

Claims 1-20 (Canceled)

Claim 21 (New) A binding composition comprising an antibody or fragment thereof which specifically binds to SEQ ID NO: 12, 14, 16, 18, 20, or 22.

Claim 22 (New) The binding composition of Claim 21, wherein the antibody fragment comprises:

- a) an Fv fragment;
- b) an Fab fragment; or
- c) an Fab2 fragment.

Claim 23 (New) The binding composition of Claim 21, wherein the antibody or fragment thereof is:

- a) a monoclonal antibody;
- b) a polyclonal antibody;
- c) a chimeric antibody; or
- d) a humanized antibody.

Claim 24 (New) The binding composition of Claim 21, wherein the antibody or fragment thereof is conjugated to a chemical moiety.

Claim 25 (New) The binding composition of Claim 21, wherein the antibody or fragment thereof is detectably labeled.

Claim 26 (New) The binding composition of Claim 25, wherein the antibody or fragment thereof is detectably labeled with:

- a) a radioactive label; or
- b) a fluorescent label.

Claim 27 (New) The binding composition of Claim 21, wherein the antibody or binding fragment thereof is in a sterile composition.

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**Claim 28 (New)** The binding composition of Claim 27, wherein the sterile composition is an aqueous solution.

**Claim 29. (New)** The binding composition of Claim 21, wherein the antibody or fragment thereof is bound to a solid substrate.

**Claim 30 (New)** The binding composition of Claim 29, wherein the solid substrate is:

- a) a bead; or
- b) a plastic membrane.

**Claim 31 (New)** The binding composition of Claim 21, wherein the antibody or fragment thereof has a  $K_d$  of at least  $30\mu\text{M}$ .

**Claim 32 (New)** A kit comprising:  
a) a compartment containing the binding composition of Claim 21;  
and  
b) instruction for use and disposal of the kit.

**Claim 33 (New)** A method of modulating physiology of a cell comprising contacting the cell with the binding composition of Claim 21.